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(54) Title: PRODUCTION OF LINEAR ALKYL BENZENE

(57) Abstract: This invention relates to a process for producing linear alkyl benzene and linear paraffins, the process including the steps of obtaining a hydrocarbon condensate containing olefins, paraffins and oxygenates from a low temperature Fischer-Tropsch reaction; a) fractionating a desired carbon number distribution from the hydrocarbon condensate to form a fractionated hydrocarbon condensate stream; b) extracting oxygenates from the fractionated hydrocarbon condensate stream from step a) to form a stream containing olefins and paraffins; c) alkylating the stream containing olefins and paraffins from step b) with benzene in the presence of a suitable alkylation catalyst; and d) recovering linear alkyl benzene and linear paraffin.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C7/10 C10G21/16 C07C2/70

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02/31085 A (SASOL TECHNOLOGY PTY LTD ; SCHOLTZ JACOB JOHANNES (ZA); WET JOHAN PETE) 18 April 2002 (2002-04-18) page 3, paragraph 3 - page 4, paragraph 4 claims 1-16	1-24
Y	DE 199 11 910 A (LINDE AG) 21 September 2000 (2000-09-21) column 1, line 1 - line 23 column 1, line 48 - line 59 column 3, line 8 - line 29 claim 1	1-24
Y	US 4 686 317 A (QUANN RICHARD J ET AL) 11 August 1987 (1987-08-11) column 1, line 10 - line 17 table 2	1-13, 21-24
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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G document member of the same patent family

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<p>Y</p> <p>X</p>	<p>US 6 392 109 B1 (O'REAR DENNIS J ET AL)</p> <p>21 May 2002 (2002-05-21)</p> <p>the whole document</p> <p>-----</p>	<p>8-10,</p> <p>12-23</p> <p>1-7, 11,</p> <p>24-29</p>

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